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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,879	02/25/2004	Hamid Partovi	I435.124.101 / 03P51159US	1907
25281 DICKE, BILLI	7590 02/15/200 G & CZAJA	8	EXAMINER	
FIFTH STREE	T TOWERS	2250	TRAN, KHAI	
MINNEAPOL	IFTH STREET, SUITE 2 IS, MN 55402		ART UNIT	PAPER NUMBER
			2611	
			MAIL DATE	DELIVERY MODE
			02/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•		711			
	Application No.	Applicant(s)			
·	10/786,879	PARTOVI ET AL.			
Office Action Summary	Examiner	Art Unit			
	KHAI TRAN	2611			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by so Any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIA 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MO tatute, cause the application to become A	reply be timely filed  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>1</u>	1 December 2007.	•			
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3) Since this application is in condition for allocation closed in accordance with the practice und					
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-28 is/are pending in the application 4a) Of the above claim(s) is/are with 5)  Claim(s) 8-21 and 26 is/are allowed.</li> <li>6)  Claim(s) 1,5,22-25,27 and 28 is/are rejected 7)  Claim(s) 2-4,6-7 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction are</li> </ul>	drawn from consideration.				
Application Papers					
9) The specification is objected to by the Exar	niner.				
10) The drawing(s) filed on is/are: a)		by the Examiner.			
Applicant may not request that any objection to	•	•			
Replacement drawing sheet(s) including the co					
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of:	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
1. Certified copies of the priority docum	nents have been received.				
2. Certified copies of the priority docum		Application No			
3. Copies of the certified copies of the application from the International Bu	priority documents have been				
* See the attached detailed Office action for a		t received.			
Attachment(s)	<b>∧</b> □ 1	Summany /DTO 412\			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	, <del></del>	Summary (PTO-413) (s)/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	5) Notice of 6) Other:	Informal Patent Application			

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### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/11/2007 has been entered. Claims 1-28 are pending in this Office action.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 5, 22-23, 25, 27-28 remain rejected under 35 U.S.C. 102(e) as being anticipated by Aung et al (US 2003/0212939 A1).

Regarding claim 25, Aung et al disclose a serial data transceiver apparatus, comprising: means for deserializing (60) an input serial data stream (Figure 1); means for converting parallel data (see Figure 7, a serializer 340) into output serial data stream based on a transmit serialization clock signal; means for producing the transmit serialization clock signal by applying a clock and data recovery CDR operation with a

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CDR circuit (a CDR 50) a clock source signal supplied to a serial data input of the CDR circuit (a reference clock signal source 22).

Claims 27-28 are similar to claim 25. Therefore, claims 27-28 are rejected under a similar rationale.

Claims 22-23 are similar to claim 25. Therefore, claims 22-23 are rejected under, a similar rationale.

Claims 1, 5 are similar to claims 25-26. Aung et al further disclose a clock source input for receiving a clock source signal having a fixed transition density (see [0036], a reference clock signal source 22 can produce a reference clock signal having the same frequency as the clock frequency embedded in the CDR data signal or any convenient fraction or multiple of the embedded frequency). Therefore, claims 1, 5 are rejected under a similar rationale.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Aung et al in view of the admitted prior art.

Regarding claim 24, Aung et al fail to disclose a step of filtering the clock source signal in the digital domain. However; the admitted prior art discloses that the noisy

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external clock source typically cleaned up by applying thereto a narrow-band filtering operation (page 2, lines 6-8). It would have been obvious to one having ordinary skill in the art at the time the invention was made to filter the clock source signal as taught by the admitted prior art into the teachings of Aung et al in order filter out unwanted noise.

### Allowable Subject Matter

- 6. Claims 8-21, 26 are allowed.
- 7. Claims 2-4, 6-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: Aung et al fail to disclose or suggest that a clock synthesizer comprising a second CDR circuit having a serial data input, said second CDR circuit operable when a serial data stream is applied thereto via said serial data input for recovering a clock signal from the serial data stream, said clock synthesizer apparatus including a clock source input for receiving a clock source signal, said clock source input coupled to said serial data input for applying said clock source signal to said second CDR circuit, said second CDR circuit responsive to said clock source signal for producing said transmit serialization clock signal; and a transmit data output coupled to said data serializer for transmitting said output serial data stream.

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### Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (571) 272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

WALLAN TRAN

**Primary Examiner** 

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